

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.  
The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.  
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

## C-A OPERATIONS PROCEDURES MANUAL

### ATTACHMENT

#### 4.120.12.d 12 O'clock (PEER 13) Sweep Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.12		

#### Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
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Approved: \_\_\_\_\_ *Signature on File* \_\_\_\_\_  
 Collider-Accelerator Department Chairman Date

V. Castillo

#### 4.120.12.d 12 O'clock (PEER 13) Sweep Tests

### PASS SEMI-ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

Division B Software Filename and Checksum: Title: \_\_\_\_\_ Checksum: \_\_\_\_\_

**Initial testing complete:**

Test Team Leader's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Acceptance test procedure complete (following repairs and retesting if required):**

Test Team Leader's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Test Team Leader's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results reviewed by:**

Safety Section Head's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

Safety Section Head's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

**Test results accepted by Radiation Safety Committee:**

RSC Member's Name (Print): \_\_\_\_\_ Life Number: \_\_\_\_\_

RSC Member's Name (Sign): \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

<b>1.1</b>	<b>To Sweep</b>	<b>Zone 11Z1</b>	
	<b>CLOSE</b>	Gates <b>11GS1-I/O</b> , <b>11EL1</b> , and <b>11GI1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gates <b>11GS1-I/O</b> , <b>11EL1</b> , and <b>11GI1</b> are	<b>CLOSED</b>
	<b>RESET</b>	Gate <b>11EL1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gate <b>11EL1</b>	<b>RESET</b>
	<b>PLACE</b>	<b>Peer 13</b> in <b>Mode 16</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
	<b>ACTIVATE</b>	Check station <b>11CS1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>11CS1</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>11CS2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>11CS2</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>11CS3</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>11CS3</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>11CS4</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>11CS4</b> indicator ( <b>Area Secured</b> )	<b>ON</b>
	<b>EXIT</b>	Gate <b>11GI1</b> with <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees Zone <b>11Z1</b>	<b>SWEPT</b>
	<input type="checkbox"/>	<b>Check for test acceptance of Sweep of Zone 11Z1</b>	

<b>1.2</b>	<b>To Sweep</b>	<b>Zone 12Z1</b>	
	<b>CLOSE</b>	Gates <b>11GI1-I&amp;O</b> , <b>11ED1</b> , <b>11MD2</b> , <b>12MD1</b> , <b>12GE1</b> , <b>12GI1-I&amp;O</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gates <b>11GI1-I&amp;O</b> <input type="checkbox"/> , <b>11ED1</b> <input type="checkbox"/> , <b>11MD2</b> <input type="checkbox"/> , <b>12MD1</b> <input type="checkbox"/> , <b>12GE1</b> <input type="checkbox"/> , <b>12GI1-I&amp;O</b> <input type="checkbox"/> are	<b>CLOSED</b>
	<b>RESET</b>	Gate <b>11ED1</b> , <b>11MD2</b> , <b>12MD1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gates <b>11ED1</b> <input type="checkbox"/> , <b>11MD2</b> <input type="checkbox"/> , <b>12MD1</b> <input type="checkbox"/> is	<b>RESET</b>
	<b>PLACE</b>	<b>Peer 13</b> in <b>Mode 16</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
	<b>ACTIVATE</b>	Check station <b>12XCS1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12XCS1</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>12XCS2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12XCS2</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>12XCS3</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12XCS3</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>12XCS4</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12XCS4</b> indicator ( <b>Area Secured</b> )	<b>ON</b>
	<b>EXIT</b>	Gate <b>12GE1</b> with <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees Zone <b>12Z1</b>	<b>SWEPT</b>
	<input type="checkbox"/>	<b>Check for test acceptance of Sweep of Zone 12Z1</b>	

<b>1.3</b>	<b>To Sweep</b>	<b>Zone 12Z2</b>	
	<b>CLOSE</b>	Gates <b>12GI1-I&amp;O, 12EL1, 12ED1, 1GSI-I&amp;O</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gates <b>12GI1-I&amp;O, 12EL1, 12ED1, 1GSI-I&amp;O</b> are	<b>CLOSED</b>
	<b>RESET</b>	Gate <b>12EL1, 12ED1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Gate <b>12EL1, 12ED1</b> are	<b>RESET</b>
	<b>PLACE</b>	<b>Peer 13</b> in <b>Mode 16</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in <b>Controlled Access</b>	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 12Z1</b>	<b>NOT SWEPT</b>
	<b>ACTIVATE</b>	Check station <b>12CS5</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12CS5</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>12CS4</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12CS4</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>12CS2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12CS2</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>12CS3</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12CS3</b> indicator ( <b>Area Secured</b> )	<b>BLINKS ONCE</b>
	<b>ACTIVATE</b>	Check station <b>12CS1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Check station <b>12CS1</b> indicator ( <b>Area Secured</b> )	<b>ON</b>
	<b>EXIT</b>	Gate <b>12GE1</b> with <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 12Z2</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>Check for test acceptance of Sweep of Zone 12Z2</b>		

**1.4 Test of retention of sweep with legal opening of gate 11GS1-I with Peer 15 in CA, Mode 16 and Peer 13 in CA Mode 16 and loss of sweep with illegal opening of gate 11GS1-I.**

	<b>PLACE</b>	Peers <b>15 &amp; 13</b> in <b>Controlled Access</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 15</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning lights and <b>LED</b> message: <b>Stop Call MCR for Access</b>	
		<b>X-7400 Stop</b> on both sides of the gate are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning light on both sides of gate <b>11GS1-O</b> indicate: <b>Call MCR</b>	
		<b>for Crossover Amber</b>	<b>ON</b>
	<b>SWEEP</b>	<b>Zone 10Z2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>SWEPT</b>
	<b>SWEEP</b>	<b>Zone 11Z1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11) Amber</b>	<b>ON</b>
		<b>Area Secured (S10) Amber</b>	<b>ON</b>
	<b>OPEN</b>	Gate <b>11GS1-I</b> with <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 15</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11) Amber</b>	<b>ON</b>
		<b>Area Secured (S10) Amber</b>	<b>ON</b>
	<b>CLOSE</b>	Gate <b>11GS1-I</b>	
	<b>OPEN</b>	Gate <b>11GS1-I</b> with <b>without</b> <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>NOT SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>NOT SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> is in	<b>MODE 16</b>

<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11)</b> <b>Amber</b>	<b>OFF</b>
		<b>Area Secured (S10)</b> <b>Amber</b>	<b>OFF</b>
	<b>CLOSE</b>	Gate <b>11GS1-I</b>	

- ☐ Check for test acceptance of retention of sweep with legal opening of gate 11GS1-I with Peer 15 in CA, Mode 16 and Peer 13 in CA, Mode 16 and loss of sweep with illegal opening of gate 11GS1-I

**1.5 Test of retention of sweep with legal opening of gate 11GS1-I with Peer 15 in CA, Mode 17 and Peer 13 in CA Mode 16 and loss of sweep with illegal opening of gate 11GS1-I**

	<b>PLACE</b>	Peer <b>15</b> in <b>Controlled Access, Mode 17</b>	
<input type="checkbox"/>	<b>VERIFY</b>	Peer <b>15</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	Peer <b>13</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning lights and <b>LED</b> message: <b>Stop Call MCR for Access X-7400 Stop</b> on both sides of the gate are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning light on both sides of gate <b>11GS1-O</b> indicate: <b>Call MCR for Crossover Amber</b>	<b>ON</b>
	<b>SWEEP</b>	<b>Zone 10Z2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>SWEPT</b>
	<b>SWEEP</b>	<b>Zone 11Z1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11)</b> <b>Amber</b>	<b>ON</b>
		<b>Area Secured (S10)</b> <b>Amber</b>	<b>ON</b>
	<b>OPEN</b>	Gate <b>11GS1-I</b> with <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 15</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11)</b> <b>Amber</b>	<b>ON</b>
		<b>Area Secured (S10)</b> <b>Amber</b>	<b>ON</b>
	<b>CLOSE</b>	Gate <b>11GS1-I</b>	
	<b>OPEN</b>	Gate <b>11GS1-I</b> with <b>without</b> <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>NOT SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>NOT SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 15</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> is in	<b>MODE 16</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11)</b> <b>Amber</b>	<b>OFF</b>
		<b>Area Secured (S10)</b> <b>Amber</b>	<b>OFF</b>
	<b>CLOSE</b>	Gate <b>11GS1-I</b>	

- ☐ Check for test acceptance of retention of sweep with legal opening of gate 11GS1-I with Peer 15 in CA, Mode 17 and Peer 13 in CA, Mode 16 and loss of sweep with illegal opening of gate 11GS1-I.

**1.6 Test of retention of sweep with legal opening of gate 11GS1-I with Peer 15 in CA, Mode 17 and Peer 13 in CA Mode 17 and loss of sweep with illegal opening of gate 11GS1-I.**

	<b>PLACE</b>	Peers <b>15 &amp; 13</b> in <b>Controlled Access, Mode 17</b>	
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 13</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>Peer 15</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning lights and <b>LED</b> message: <b>Stop Call MCR for Access X-7400 Stop</b> on both sides of the gate are	<b>ON</b>
<input type="checkbox"/>	<b>VERIFY</b>	The warning light on both sides of gate <b>11GS1-O</b> indicate: <b>Call MCR for Crossover Amber</b>	<b>ON</b>
	<b>SWEEP</b>	<b>Zone 10Z2</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>SWEPT</b>
	<b>SWEEP</b>	<b>Zone 11Z1</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11) Amber</b>	<b>ON</b>
		<b>Area Secured (S10) Amber</b>	<b>ON</b>
	<b>OPEN</b>	Gate <b>11GS1-I</b> with <b>Simultaneous Release</b>	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 15</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11) Amber</b>	<b>ON</b>
		<b>Area Secured (S10) Amber</b>	<b>ON</b>
	<b>CLOSE</b>	Gate <b>11GS1-I</b>	
	<b>OPEN</b>	Gate <b>11GS1-I</b> with <b>without</b> Simultaneous Release	
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 11Z1</b>	<b>NOT SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Zone 10Z2</b>	<b>NOT SWEPT</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 13</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	MCR sees <b>Peer 15</b> is in	<b>MODE 17</b>
<input type="checkbox"/>	<b>VERIFY</b>	<b>11GS1</b> gatebox lights are as follows:	
		<b>Area Secured (S11) Amber</b>	<b>OFF</b>
		<b>Area Secured (S10) Amber</b>	<b>OFF</b>
	<b>CLOSE</b>	Gate <b>11GS1-I</b>	
<input type="checkbox"/>	<b>Check for test acceptance of retention of sweep with legal opening of gate 11GS1-I with Peer 15 in CA, Mode 17 and Peer 13 in CA, Mode 17 and loss of sweep with illegal opening of gate 11GS1-I.</b>		

**END OF TEST PROCEDURE**

**TTL: Sign for completion of initial testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_

**TTL: Sign for completion of final testing:** \_\_\_\_\_

**Date:** \_\_\_\_/\_\_\_\_/\_\_\_\_